

United States Patent and Trademark Office





UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vignia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/726,710	11/30/2000	Takashi Hasegawa	P/1071-1233	1866
	90 09/24/2003			
Keating & Bennett, LLP 10400 Eaton Place, Suite 312			EXAMI	NER
Fairfax, VA 22	2030		JONES, STEPHEN E	
			ART UNIT	PAPER NUMBER
			2817	
	DATE MAILED: 09/24/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

		A modification in the	M.
	3 	Application No.	Applicant(s)
	Office Action Summary	09/726,710	HASEGAWA, TAKASHI
	Office Action Summary	Examin r	Art Unit
	The MAILING DATE of this area is the	Stephen E. Jones	2817
Period fo	Th MAILING DATE of this communication app or Reply	ears on the cov r she t with th	correspond nce address
- Exter after - If the - If NO - Failui - Any re	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) day	mely filed ys will be considered timely. In the mailing date of this communication.
1)⊠	Responsive to communication(s) filed on 24 J	une 2003 .	
2a)⊠		s action is non-final.	
· 3)□ Dispositio	Since this application is in condition for allowa closed in accordance with the practice under Econ of Claims	nce except for formal matters in	rosecution as to the merits is 453 O.G. 213.
4)⊠	Claim(s) <u>1-5</u> is/are pending in the application.		
	4a) Of the above claim(s) is/are withdraw	n from consideration.	
	Claim(s) is/are allowed.		
6)🖂	Claim(s) <u>1-5</u> is/are rejected.		
7) 🗌 (Claim(s) is/are objected to.		
8) 🗌 (Claim(s) are subject to restriction and/or	election requirement.	
Application	on Papers	, , , , , , , , , , , , , , , , , , ,	
9)□ ⊤	he specification is objected to by the Examiner.		
10)∐ T	he drawing(s) filed on is/are: a)□ accept	ed or b)⊡ objected to by the Exar	miner.
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).
11) 🗌 T		is: a)□ approved b)□ disappro	
_	If approved, corrected drawings are required in repl		
12)∐ T	he oath or declaration is objected to by the Exa	miner.	
Priority ur	nder 35 U.S.C. §§ 119 and 120		
13)🛛 A	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).
a)⊠	〗All b)□ Some * c)□ None of:		
1	Certified copies of the priority documents	have been received.	
2	Certified copies of the priority documents	have been received in Application	on No
	Copies of the certified copies of the priority application from the International Bure the attached detailed Office action for a list of	y documents have been receive	d in this National Stage
	knowledgment is made of a claim for domestic		
a) [☐ The translation of the foreign language provi knowledgment is made of a claim for domestic	sional application has been rece	havid
Attachment(s			· - ··
2) Notice of Signature 19 Notice 19 Not	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)
S. Patent and Trade TOL-326 (Rev.	0.4.043	on Summary	Part of Paper No. 23

Application/Control Number: 09/726,710

Art Unit: 2817

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-5 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In claim 1, the phrase "said surface of said magnetic member is parallel to a direction of said DC magnetic field" is not described in the original disclosure in combination with the "longitudinal axis of said inductor" being "parallel to a surface of" the "magnetic member". The above described recitation appears to be contrary to what is described in the original disclosure (e.g. see page 10, lines 13-16, which states that the "magnetic flux passes the ferrite in its thickness direction", i.e. the magnetic flux is perpendicular to the surface of the magnet and ferrite and not parallel as the present claim states, it is the magnet surface that is parallel to the axis of the inductor). Thus the specification does not appear to support these new limitations (i.e. new matter).

Any arguments regarding this "new matter" rejection should include the location in the original disclosure where the relevant subject matter can be found.

Application/Control Number: 09/726,710

Art Unit: 2817

Also, note that the above described "new matter" limitation is not given any patentable weight in the following art rejections because the new limitations would appear to make the device inoperable.

Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 1, 2, 4, and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohira (JP 07-131209 of record) in view of Okada et al. (EP 0903801 A2 of record) for the reasons of record.

Regarding the new limitations, the Ohira inductor axis is parallel to the surface of the magnet (e.g. see Figs. 5-6) and inherently the magnetic flux of the inductor is perpendicular to the direction of the DC magnetic field since the DC magnetic field is through the thickness of the device (for the device to be operable) and the magnetic flux of the inductor is along its axis as is defined by fundamental inductor coil characteristics (i.e. of a toroidal coil).

5. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et al. (of record) in view of Ohira (JP 07-131209 of record) and Okada et al. (EP 0903801 A2 of record) for the reasons of record.

Regarding the new limitations, the Ohira inductor axis is parallel to the surface of the magnet (e.g. see Figs. 5-6) and inherently the magnetic flux of the inductor is perpendicular to the direction of the DC magnetic field since the DC magnetic field is

Application/Control Number: 09/726,710

Art Unit: 2817

through the thickness of the device (for the device to be operable) and the magnetic flux of the inductor is along its axis as is defined by fundamental inductor coil characteristics (i.e. of a toroidal coil).

Response to Arguments

6. Applicant's arguments filed 6/24/03 have been fully considered but they are not persuasive.

Applicant argues that Maeda and Ohira fail to teach the orientation of the magnetic flux of the inductor with respect to the DC magnetic field, that the axis of the inductor is parallel to the direction of the DC magnetic field, and that the magnetic flux of the inductor is perpendicular to the DC magnetic field.

These arguments are not convincing. As noted above regarding the Ohira teachings, the magnetic flux of the inductor is perpendicular to the direction of the DC magnetic field and thus parallel to the surface of the magnet since the DC magnetic field is through the thickness of the device (as noted in the previous office action) and the magnetic flux of the inductor is along its axis as is defined by fundamental inductor coil characteristics (i.e. of a toroidal coil). Regarding the argument that the axis of the inductor is parallel to the direction of the DC magnetic field, this newly added limitation appears to be new matter and is thus rejected under 112 1st paragraph as described above.

Art Unit: 2817

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen E. Jones whose telephone number is 703-305-0390. The examiner can normally be reached on Monday through Friday from 8 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal can be reached on 703-308-4909. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

SEJ

Robert Assal
Supervisory Carent Examiner
Technology Center 2800